

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference MJ/CS/STS.33	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 00/ 00796	International filing date (day/month/year) 06/03/2000	(Earliest) Priority Date (day/month/year) 04/03/1999
Applicant SURFACE TECHNOLOGY SYSTEMS LIMITED et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.

1



None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/00796

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C01B7/24 B01J7/00 B01J12/00 B01J19/24 B01J19/08
H01L21/3065

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01B B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, INSPEC, COMPENDEX, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 976 757 A (TROUT HORACE Q ET AL) 24 August 1976 (1976-08-24) claims 1-5 column 3, line 29 -column 6, line 35 ----	1,13
A	WO 98 27005 A (BRITISH NUCLEAR FUELS PLC) 25 June 1998 (1998-06-25) claims 1,7,8,13-15 page 1, line 34 -page 2, line 16 page 2, line 12 - line 16 page 3, line 5 - line 6 page 4, line 23 -page 5, line 2 ----	1,9,13
A	GB 1 268 377 A (JAMES EPHRAIM LOVELOCK) 29 March 1972 (1972-03-29) claims 1,2 page 1, line 50 - line 55 ----- -/--	1,9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

30 June 2000

Date of mailing of the international search report

07/07/2000

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	GB 2 332 302 A (SAMSUNG ELECTRONICS CO LTD) 16 June 1999 (1999-06-16) the whole document	1, 5, 9
A	PATENT ABSTRACTS OF JAPAN vol. 015, no. 280 (E-1090), 16 July 1991 (1991-07-16) & JP 03 097228 A (HITACHI LTD), 23 April 1991 (1991-04-23) abstract	1, 9
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 13, 30 November 1998 (1998-11-30) & JP 10 212582 A (CENTRAL GLASS CO LTD), 11 August 1998 (1998-08-11) abstract	1
A	WO 81 02947 A (WESTERN ELECTRIC CO) 15 October 1981 (1981-10-15)	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 00/00796

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3976757 A	24-08-1976	CA 998229 A GB 1444534 A	12-10-1976 04-08-1976
WO 9827005 A	25-06-1998	AU 7737898 A EP 0946407 A	15-07-1998 06-10-1999
GB 1268377 A	29-03-1972	NONE	
GB 2332302 A	16-06-1999	CN 1218986 A DE 19840437 A JP 11176817 A	09-06-1999 17-06-1999 02-07-1999
JP 03097228 A	23-04-1991	NONE	
JP 10212582 A	11-08-1998	JP 2823555 B	11-11-1998
WO 8102947 A	15-10-1981	US 4310380 A CA 1160761 A DE 3174887 D EP 0049272 A JP 1916631 C JP 3114226 A JP 6042470 B JP 57500399 T	12-01-1982 17-01-1984 07-08-1986 14-04-1982 23-03-1995 15-05-1991 01-06-1994 04-03-1982



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(74) Agents: JAMES, Michael, John, Gwynne et al.; Wynne-Jones Lainé & James, 22 Rodney Road, Cheltenham, Gloucestershire GL50 1JJ (GB).			

(54) Title: CHLOROTRIFLUORINE GAS GENERATOR SYSTEM

(57) Abstract

A ClF_3 gas generation system is provided with supply sources of chlorine (3) (for example a cylinder of compressed chlorine) and fluorine (4) (for example a fluorine generator) connected into a gas reaction chamber (2) enabling generation of ClF_3 gas. The reaction chamber has a valved outlet (C) for the supply of the ClF_3 gas to a process chamber for immediate local use.

